

Notice of Non –Availability

“Off Spec”

April 24, 2014
M/V Weisshorn
Flag Country: Antigua & Barbuda
IMO ID Number: 9126974

1. March 24, 2014 Master of the M/V Weisshorn requested bunkers to be delivered in Jacksonville, FL. April 01, 2014
 - LSHF-IFO 380- RMG max 1.0% 200 MTS
2. March 24, 2014 the order was placed to Chemoil Corporation in Jacksonville, FL.
3. April 01, 2014 M/V Weisshorn received 203 MTS RMG 380 LS-1% in Jacksonville, FL. from Chemoil
4. April 22, 2014 The Owners of the vessel Reederei Patjens informed us that the lab results came back indicating that the LS was “off Spec” 1.06% against a limit of 1.0 % S.
 - Reason they got the report so late was and quote.
 - “The problem was, that the vessel had not received the original needed sample bottles in time and that's why we lost one round JAX to JAX, prior the new set bottles were delivered onboard the vessel at the 17th of April - instead the 3rd or 4th of April. So the delay in sending in the testing samples was caused only by the late delivery of the original sample bottles - and be assured, that this will not happen again”.
5. April 22, 2014 our procurement department put in notice Chemoil and requested a re-test the suppliers' sample.
6. April 24, 2014 Chemoil responded:
 - Quote: “The sulfur content has been confirmed at 1.02 wt. %. As discussed previously, Chemoil considers a result such as this to be on-specification since it falls within test precision repeatability of the contractual maximum and also within ISO 4259 acceptability criteria”.
7. April 25, 2014 Crowley filed by e-mail a notice of non-availability “off spec” with EPA.
8. April 28, 2014 at 2000 hrs M/V Weisshorn will enter Florida ECA Zone bound to JAX -PEV and to STT -STX Caribbean ECA Zone. Back to JAX- PEV and to STT -STX and to JAX burning the fuel that is “off spec”
 - Attach vessel voyage plan. Off spec burning time is from April 28, 2014 enter ECA to May 16, 2014 Exit ECA including the Caribbean ECA zone in between.
 - For contact INFO for owners and bunker supplier please see e-mails attach.



Sincerely
P/Capt Gregory Rivera

①

Rivera, Gregory

From: WEISSHORN [Weisshorn@Les-Raisting.de]
Sent: Monday, March 24, 2014 9:52 AM
To: Rivera, Gregory
Cc: JAX Dispatch; Nealon, Gardiner; Seals, Elijah; O'Malley, Richard; Cline, Mark
Subject: Bunker Request MV WEISSHORN April 01 , 2014

Dear Sirs,

Kindly ask you to arrange following bunker quantities for our good vessel on April 01, 2014:

1. HFO – IFO380 – RMG380 max 3.5% S 500 MT
2. LSHFO- IFO380 - RMG380 max 1.0% S 200 MT
3. MDO – MGO – DMA max 0.1% S 80 MT

Vessel: WEISSHORN
Bunker port: Jacksonville
Master: Captain Bilenko Dmytro

Best Regards,

Master / C.Eng

CROWLEY BUNKER STEM CONFIRMATION

TO: CHEMOIL CORPORATION
VESSEL: WEISSHORN
PORT: JACKSONVILLE
DELIVERY: APRIL 1, 2014
PO: 6501621

2

CONFIRMATION BASED ON MARCH 24, 2014 EMAIL WITH CATHY HIGGINBOTHAM WHEREIN THE FOLLOWING NOMINATION IS MADE:

1) DESCRIPTION	QUANTITY	PRICE
RMG380<3.5%	500MT	\$615
RMG380<1%	200 MT	\$710/MT
MGO<.1%	80MT	\$1000
DELIVERY CHARGE WITH SURCHARGE		\$9,420.80

All products must be in compliance with ISO 8217: 2010 specifications including the following: this product must contain no polypropylene or polymers and no chemical waste and/or used marine or automotive lubricants.

In addition to meeting ISO 8217: 2010 requirements, ordered fuel shall also conform to regulations 14 and 18 of Annex VI of Marpol 73/78. As per the requirement of SOLAS regulation VI/5-1, a material safety data sheet (MSDS) for each type of product loaded must be handed over to the master of the receiving vessel upon delivery. This MSDS must comply with Annex 1 and 2 of this regulation (effective 1st July 2009).

- 2) **Agent:** CAROLINA SHIPPING ops.jacksonville@biehlco.com
- 3) **Payment Terms:** 30 DAYS FROM DATE OF DELIVERY
- 4) **Samples:** SEALED REPRESENTATIVE SAMPLE TO BE GIVEN TO VESSEL
- 5) **Title and Risk of Loss:** SHALL PASS TO BUYER AT THE FLANGE CONNECTIONS BETWEEN SELLER'S HOSE CONNECTIONS AND BUYER'S RECEIVING MANIFOLD
- 6) **Terms and Conditions:** PURCHASE ORDER IS SUBJECT TO CROWLEY'S STANDARD TERMS AND CONDITIONS WHICH CAN BE FOUND AT:
http://www.crowley.com/content/download/5071/25953/version/2/file/Terms_and_Conditions_PO-RFO.pdf
SUPPLIER SHALL NOTIFY CROWLEY IMMEDIATELY IF ADHERENCE TO ANY OF ABOVE TERMS IS NOT POSSIBLE.

7) **Invoicing Instructions:**

I) NO hard copies required: All documents via PDF email to caroline.zelada@crowley.com
Juan.Blanco@crowley.com

II) Crowley Purchase Order Number (P.O.): Buyer always provides a P.O. If invoice does not make reference to specific P.O., it is extremely difficult to reconcile, and may cause payment delay. Crowley will not accept any late fees or charges for delays in payments to orders without a P.O.

III) Invoice must be received no later than 10 days from delivery date. If not, Crowley will not be responsible for late payment, nor will Crowley accept any late fees or charges

MARINE FUEL DELIVERY RECEIPT

VESSEL NAME: M/V MV WEISSHORN		IMO #: 9126974		ORDER #: 2400281		BARGE NAME: B202		DATE: 04/01/14	
LOADING TERMINAL LOCATION: NuStar Terminal Jacksonville (Jacksonville, FL)				DELIVERY LOCATION: Jacksonville Port Authority Talleyrand Docks (Jacksonville)					
PRODUCT		GROSS BBLS		NET BBLS		WEIGHT M. TONS			
RMG-380		3,273.11		3,181.66		499.870			
MGO		603.90		602.47		80.010			
RMG 380 LS - 1%		1,359.35		1,318.25		203.680			
PROPERTIES									
GRADE	VISCOSITY CST AT 50°C/122°F	API AT 60°F	DENSITY AT 15C	TEMP °F	FLASH °F	POUR °F	WATER %Vol.	SULPHUR %MM	
JG-380	338	11.39	889.70	133.1	206.	21.	0.05	2.32	BARGE ALONGSIDE 04/01/14 13:30
MGO	2	37.5	836.60	65	141.	0	0	0.0007	HOSE CONNECTED 04/01/14 14:05
RMG 380 LS -	341	13.8	973.3	137.4	198.	16.	0.05	0.95	STARTED PUMPING 04/01/14 14:45
									FINISHED PUMPING 04/01/14 17:05
									HOSE DISCONNECTED 04/01/14 17:25
									BARGE AWAY 04/01/14
The fuel oil supplied is in conformity with regulation 14(1) or 4(a) and regulation 18(1) of Marpol 73/78 Annex VI									
The marine fuel described herein is delivered in accordance with Colonial Marine Fuels Standard Terms and Conditions of Sale (July 2013) (a copy of which has been provided to buyer prior to delivery) and on credit of the vessel. Any disclaimers as to the creation of a maritime lien in the amount of the purchase price and delivery charges and/or restrictions as to the authority of the ship's officer signing this Receipt to bind the vessel and her owner to the above are null and void, unless an authorized representative of Colonial Marine Fuels shall have otherwise agreed in writing at the time Buyer initially orders the marine fuel. Failing such agreement, delivery shall, under no circumstances, constitute a waiver by Colonial Marine Fuels of the above.									
REMARKS:									
BARGE SAMPLE (SUPPLIER): SEAL# LS7301 LS7302 HS7305 HS7306 MGO7309 MGO7310									
BARGE SAMPLE (VESSEL): SEAL# LS7303 HS7307 MGO7311									
MARPOL ANNEX VI SAMPLE: SEAL# LS7304 HS7308 MGO7312									
SAMPLES GIVEN TO CUSTOMER <input checked="" type="checkbox"/> YES <input type="checkbox"/> REFUSED					DECLARATION OF MASTER/CHIEF ENGINEER I declare that the information given above is true and correct to the best of my knowledge and belief, that I have knowledge of the facts set forth herein, that the articles described in this notice of lading were received in the quantities stated, from the person, and on the date, indicated above; that said articles were laden on the vessel named above for use on said vessel as supplies, except as noted below.				
GAUGES WITNESSED BY SHIP'S REPRESENTATIVE <input type="checkbox"/> BEFORE <input type="checkbox"/> AFTER <input checked="" type="checkbox"/> DECLINED					Received for use as bunkers together with representative sample, the quantities shown above. Exact quantities shown are subject to correction in case of error.				
DELIVERING COMPANY: Vane Line Bunkering, Inc					MASTER/CHIEF ENGINEER: <i>Pren</i>				
BY: Rick Kooso					DATE: 01.04.2014				
DATE: 04/01/14					DATE: 01.04.2014				

CHEMOIL CORPORATION dba COLONIAL MARINE FUELS
4 Embarcadero Center • San Francisco, CA 94111
Phone: (415) 268-2700 • Fax (415) 268-2701

ED 002238 00002335-00004

Inspectorate
151 East Lathrop Ave.
Savannah, Georgia 31415 USA
T: 912-335-1107
F: 912-335-1115



INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank : Shore Tank 8013
Product : #6 Fuel Oil
Client Reference : n/a
Terminal / Port / Office : NUSTAR - JACKSONVILLE - FL
Job ID : 0027-0000427
Sample Details : ShoreTank After Discharge
Comments :

Sample Submitted By : Savannah, GA
Analysis Performed By : IAC Savannah
Date Sampled : 07-Feb-2014
Date Reported : 08-Feb-2014
Submission ID : 2014-027-00088

		8013 UML Composite	
		2014-027-00088-005	
Method	Test	Result	Specification
ASTM D4052	API Gravity @ 60 °F	13.8	
	Test Temperature	15.0 °C (59 °F)	
	Density , kg/m3	973.1	991
ASTM D445	Test Temperature	50 °C (122 °F)	
	Kinematic Viscosity , cSt	341.4	380 Max
ASTM D4294	Sulfur Content , mass %	0.949	
ASTM D93 Proc. B	Manual / Automated	Automatic	
	Flash Point , ° F / ° C	198 / 92.0	60 ° C Min.
ASTM D95	Water , % (v/v)	0.05	0.50 Max.
ASTM D97	Pour Point , ° C / ° F	-9 / 16	30.0 ° F Max.
ISO-FDIS 8217	Calculated Carbon Aromaticity Index	835.2	870 Max.
ASTM D4740	Blend Ratio	50:50	
	Compatibility Rating	1	2 Max.
ASTM D664	Total Acid Number / mg KOH/g	0.34	1.5 Max.
ASTM D482	Ash Content , mass %	0.0365	0.100 Max.
ASTM D4530	Carbon Residue , % (m/m)	9.33	18.00 Max.
ASTM D4870 Proc. A	Potential Total Sediment , % (m/m)	0.04	0.10 Max.
	Aluminum , ppm (mg/kg)	41	
IP 470	Calcium , ppm (mg/kg)	9	30 Max.
	Silicon , ppm (mg/kg)	16	
	Sodium , ppm (mg/kg)	12	100 Max.
	Vanadium , ppm (mg/kg)	330.3	350 Max.
	Zinc , ppm (mg/kg)	<1	15 Max.
	Al+Si , ppm (mg/kg)	57	60 Max.
IP 570	H2S Content , ppm (mg/kg)	<0.4	
	Procedure	A	

For Inspectorate:

Jeremiah Cameron, Chemist

4

Rivera, Gregory

From: Stefan Patjens [patjens@reederei-patjens.de]
Sent: Wednesday, April 23, 2014 4:22 AM
To: Cosgrove, Cole; Nealon, Gardiner; Rivera, Gregory
Cc: Heino Eckerich
Subject: PLEASE READ ENGINEERING NOTES FOR DETAILS OF PARAMETERS WHICH EXCEED SPECIFICATION LIMIT - WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS

GERMAN TIME 22

Importance: High

Cole, Gardiner and Gregory / Stefan
(cc: Heino)

... sorry to inform you again, but it seems, that the sulphur-content of the last bunker supply (bunkered at the 4th of April, 2014, but only received the samples at the laboratory at the 21st of April, 2014) is again "off-spec" (1,06 % S-content against a limit of 1,0 % S) - but still within the 95 % confidence limit.
Pls inform your supplier "Colonial Oil" accordingly - thanks in advance.

Best regards,
Stefan


+++

Stefan Patjens
Managing Director / Owner

Reederei Stefan Patjens GmbH & Co. KG

Elbinsel Krautsand 20
21706 Drochtersen
Phone: +49 / 4143 / 91 10-10
Fax: +49 / 4143 / 91 10-25
Mobil: +49 / 171 / 54 00 65 2
E-Mail: patjens@reederei-patjens.de

Registered in Tostedt / Germany
Register No.: HRA 100 996
IMO Reg.-ID.: 4062920

 Please consider the environment before printing this e-mail!

This e-mail and any attachment is confidential and may contain copyright and/or legally privileged information. It may be read, copied and used only by the intended recipient. If you are not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you received this e-mail by accident, please notify the sender immediately and destroy this e-mail, any attachment and all copies. Security and reliability of e-mail is not guaranteed. In addition, no liability or responsibility is accepted for viruses and it is your responsibility to scan any attachments. Please note that for business purposes, outgoing and incoming e-mails from and to the company are monitored and recorded.

Gesendet: Dienstag, 22. April 2014 20:29

An: VESS-WEISSHORN (weisshorn@les-raisting.de); info@reederei-patjens.de; RSPCROWLEY (gardiner.nealon@crowley.com); Maurice ODonoghue

Betreff: PLEASE READ ENGINEERING NOTES FOR DETAILS OF PARAMETERS WHICH EXCEED SPECIFICATION LIMIT - WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS

Lintec Testing Services Limited

Sample information collated from Vessel 's Bunker Data form and sample bottle label.

Fuel Quality Report - SUBMITTED

Sample No. HN6877

Vessel WEISSHORN
 Client Reederei Stefan Patjens GmbH
 Act Bunker Date 04/04/2014
 Bunker Port JACKSONVILLE
 Quantity Del. 203 M.T.
 Grade Ordered RMG380
 Bunker Supplier COLONIAL OIL
 Barge B-202
 Sample Location SHIP'S BUNKER LINE
 Supplier's Specs: Density - @15=973.3
 Viscosity - @50=341.0
 Sulphur - 0.95%

Received at Lab 21/04/2014 at 16:05 Hrs
 Courier Ref 596088183615
 DHL PAD Used No
 Lintec Sample Seal 0987869/617293
 Supplier Sample Seal 0987870/617294
 Vessel Sample Seal 0987868/617292
 Marpol Sample Seal 0987867/617291

TEST	METHOD	UNITS	RESULT	SPEC
DENSITY	ISO 12185	kg/m ³ @15°	976.8	991 MAX
VISCOSITY	ISO 3104	CST@50°C	369.9	380 MAX
VISCOSITY	ISO 3104	CST@100°C	33.9	35 MAX
FLASH POINT	ISO 2719	°C	>70.0	60 MIN
POUR POINT	ISO 3016	°C	-3	30 MAX
MCRT	ISO 10370	%MASS	9.8	18 MAX
ASH	ISO 6245	%MASS	0.02	0.15 MAX
WATER	ISO 3733	%VOL	0.05	0.5 MAX
SULPHUR	ISO 8754	%MASS	*1.06*	1.00 MAX
COMPATIBILITY	ASTM 4740	SPOT#	1	2 MAX
VANADIUM	ISO 10478MOD	mg / kg	37	300 MAX
SODIUM	ISO 10478MOD	mg / kg	11	-
ALUMINIUM	ISO 10478	mg / kg	17	-
SILICON	ISO 10478	mg / kg	15	-
AL + SI CALCULATIO	ISO 10478	mg / kg	32	80 MAX
TOTAL SED, POTENTI	ISO 10307-2	% (m/m)	0.02	0.10 MAX
NET CAL VAL	ISO 8217:A	MJ/KG	41.02	-
CCAI	ISO 8217:B	INDEX#	838	-
OPERATIONAL ADVICE			-	-
INJECTION TEMPERAT @ 10 CST		°C	144	-
INJECTION TEMPERAT @ 15 CST		°C	128	-
MINIMUM PUMPING TE @ 1000 CST		°C	34	-
ADDITIONAL METALS			-	-
IRON	ISO 10478MOD	mg / kg	19	-
NICKEL	ISO 10478MOD	mg / kg	31	-
CALCIUM	ISO 10478MOD	mg / kg	4	-
MAGNESIUM	ISO 10478MOD	mg / kg	1	-
LEAD	ISO 10478MOD	mg / kg	<1	-
ZINC	ISO 10478MOD	mg / kg	1	-
TOTAL ACID NUMBER	ASTM 664	mg/g	0.70	3.0 MAX
OPERATIONAL ADVICE			-	-

CHEMICAL CONTAMINA LINMS - -Not Tested
PHOSPHOROUS ISO 10478MOD mg / kg <1 -

ONBOARD FUEL BLENDING IS NOT RECOMMENDED

*Refer to your engine manufacturer's for max/min alarm settings

Spec. density:	991.0 @15C	Spec. viscosity:	380.0 @50C
Supplier density:	973.3 @15C	Supplier viscosity:	341.0 @50C
Sample density:	976.8 @15C	Sample viscosity:	369.9 @50C

Spec. sulphur: 1.00%
Supplier sulphur: 0.95%
Sample sulphur: 1.06%

Lab Technician : Premalatha Indupalli

Sample results are compared with the spec, RMG380

The above analysis was carried out on a sample supplied by your vessel's Chief Engineer in accordance with the Bunker Data Form returned to us. The sample bottle was sealed on arrival. The seal was broken to allow the analysis to be carried out.

ENGINEERING NOTES:

The following engineering notes are given in good faith for guidance only, always check with your Company Instructions and machinery manufacturer's instructions before taking any actions.

* PLEASE NOTE TESTED SULPHUR CONTENT of 1.06% AGAINST A 1.00% SPEC. *

The analysis of the submitted sample has shown a Sulphur content above 1.00%. This single test result, although in excess of the latest MARPOL Annex VI regulations for Marine Bunker Fuels for use within an ECA, is within the 95% Confidence limit for the test. The 95% Confidence limit is calculated using the precision data as provided in the test methods ISO 8754 and ISO 14596. The sample, as tested, is in compliance with the MARPOL Revised Annex VI for the current ECA Sulphur Limit and as such no further action is required.

Signed: Premalatha Indupalli Report Date: 21/04/2014
on behalf of Lintec Testing Services Ltd.

4.

Rivera, Gregory

From: Stefan Patjens [patjens@reederei-patjens.de]
Sent: Thursday, April 24, 2014 12:55 PM
To: Rivera, Gregory; Cosgrove, Cole; Nealon, Gardiner
Cc: Kelly, Steven; MacDonald, Wendy; Heino Eckerich
Subject: AW: **HIGH DENSITY** - PLEASE READ ENGINEERING NOTES FOR OFF SPECIFICATION COMMENTS - WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS

Gregory / Stefan
(cc: others)

... thanks yours last on the fuel testings.

We do have contracts with "LINTEC" as well as with "DNV" in place and are satisfied with both of them.

The problem was, that the vessel had not received the original needed sample bottles in time and thats why we lost one round JAX to JAX, prior the new set bootles were delivered onboard the vessel (at the 17th of April - instead the 3rd or 4th of April).

So the delay in sending in the testing samples was caused only by the late delivery of the original sample bottles - and be assured, that this will not happened again.

Sorry for the late reply - best regards,
Stefan

+++

Stefan Patjens
Managing Director / Owner

Reederei Stefan Patjens GmbH & Co. KG

Elbinsel Krautsand 20
21706 Drochtersen
Phone: +49 / 4143 / 91 10-10
Fax: +49 / 4143 / 91 10-25
Mobil: +49 / 171 / 54 00 65 2
E-Mail: patjens@reederei-patjens.de

Registered in Tostedt / Germany
Register No.: HRA 100 996
IMO Reg.-ID.: 4062920

 Please consider the environment before printing this e-mail!

This e-mail and any attachment is confidential and may contain copyright and/or legally privileged information. It may be read, copied and used only by the intended recipient. If you are not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you received this e-mail by accident, please notify the sender immediately and destroy this e-mail, any attachment and all copies. Security and reliability of e-mail is not guaranteed. In addition, no liability or responsibility is accepted for viruses and it is your responsibility to scan any attachments. Please note that for business purposes, outgoing and incoming e-mails from and to the company are monitored and recorded.

Von: Rivera, Gregory [mailto:Gregory.Rivera@crowley.com]

Gesendet: Donnerstag, 24. April 2014 15:40

An: Cosgrove, Cole; Stefan Patjens; Nealon, Gardiner

Cc: Kelly, Steven; MacDonald, Wendy

Betreff: RE: **HIGH DENSITY** - PLEASE READ ENGINEERING NOTES FOR OFF SPECIFICATION COMMENTS - WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS

Hello Mark,

I acknowledge receipt of your claim involving the sulfur content of the LSFO delivered to the vessel Weisshorn at Jacksonville on April 4th. I have attached copies of the Marine Fuel Delivery Receipt and pre-delivery shore tank certificate of analysis for your information. As requested, we will make prompt arrangements for a supplier's sample to be tested for sulfur content at an independent laboratory and will provide you with the certificate of analysis and sample bottle photos as soon as possible. Per the contractual guidelines, the cost of the analysis will be for the account of the "incorrect" party.

Separately, your comment regarding recent quality issues has been passed to our Operations department and we will provide you with a response in the near future.

Best regards,

George A. Hanrahan
Claims Manager
Chemoil Corporation
george.hanrahan@chemoil.com
Tel.: 914 287 8714
Cell: 914 330 6619

From: Cline, Mark [<mailto:Mark.Cline@crowley.com>]
Sent: Tuesday, April 22, 2014 3:03 PM
To: George Hanrahan
Cc: Rivera, Gregory; Cosgrove, Cole; Nealon, Gardiner; Cathy Higginbotham
Subject: RE: PLEASE READ ENGINEERING NOTES FOR DETAILS OF PARAMETERS WHICH EXCEED SPECIFICATION LIMIT - WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS



George,
Please note below report from Lintec Testing Services showing a result of sulfur level testing at 1.06% on 203mts of RMG380(1.00%) delivered to the Weisshorn on 4/04/2014. We kindly ask you to submit the retain sample for additional testing to resolve this issue.

Please be advised that Chemoil will be held responsible in case of any and all fines or penalties imposed by the EPA or other official governing compliance agency if they deem this fuel is outside of the required sulfur spec (1.00% max sulfur). Crowley Petroleum Services will not accept any responsibility or liability for any claims, fines or penalties relating to sulfur level higher than 1.00%.

Given the amount of off spec parameters lately, I also ask for any recommendation you may have to provide a higher confidence level to Crowley that fuel ordered will meet ISO and EPA specifications without having to test retains.

Mark Cline
Mark.Cline@crowley.com
Office: 904-727-2444 | Mobile: 813-629-1712

From: SHIPCARE (Lintec) Results [<mailto:lintec.results@intertek.com>]
Sent: Tuesday, April 22, 2014 2:29 PM
To: VESS-WEISSHORN (weisshorn@les-raisting.de); RSP-INFO (info@reederei-patjens.de); Nealon, Gardiner; Maurice ODonoghue
Subject: PLEASE READ ENGINEERING NOTES FOR DETAILS OF PARAMETERS WHICH EXCEED SPECIFICATION LIMIT -

WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS

Importance: High

Lintec Testing Services Limited

Sample information collated from Vessel 's Bunker Data form and sample bottle label.

Fuel Quality Report - SUBMITTED

Sample No. HN6877

Vessel WEISSHORN
 Client Reederei Stefan Patjens GmbH
 Act Bunker Date 04/04/2014
 Bunker Port JACKSONVILLE
 Quantity Del. 203 M.T.
 Grade Ordered RMG380
 Bunker Supplier COLONIAL OIL
 Barge B-202
 Sample Location SHIP'S BUNKER LINE
 Supplier's Specs: Density - @15=973.3
 Viscosity - @50=341.0
 Sulphur ~ 0.95%

Received at Lab 21/04/2014 at 16:05 Hrs
 Courier Ref 596088183615
 DHL PAD Used No
 Lintec Sample Seal 0987869/617293
 Supplier Sample Seal 0987870/617294
 Vessel Sample Seal 0987868/617292
 Marpol Sample Seal 0987867/617291

TEST	METHOD	UNITS	RESULT	SPEC
DENSITY	ISO 12185	kg/m ³ @15°	976.8	991 MAX
VISCOSITY	ISO 3104	CST@50°C	369.9	380 MAX
VISCOSITY	ISO 3104	CST@100°C	33.9	35 MAX
FLASH POINT	ISO 2719	°C	>70.0	60 MIN
POUR POINT	ISO 3016	°C	-3	30 MAX
MCRT	ISO 10370	%MASS	9.8	18 MAX
ASH	ISO 6245	%MASS	0.02	0.15 MAX
WATER	ISO 3733	%VOL	0.05	0.5 MAX
SULPHUR	ISO 8754	%MASS	*1.06*	1.00 MAX
COMPATIBILITY	ASTM 4740	SPOT#	1	2 MAX
VANADIUM	ISO 10478MOD	mg / kg	37	300 MAX
SODIUM	ISO 10478MOD	mg / kg	11	-
ALUMINIUM	ISO 10478	mg / kg	17	-
SILICON	ISO 10478	mg / kg	15	-
AL + SI CALCULATIO	ISO 10478	mg / kg	32	80 MAX
TOTAL SED, POTENTI	ISO 10307-2	% (m/m)	0.02	0.10 MAX
NET CAL VAL	ISO 8217:A	MJ/KG	41.02	-
CCAI	ISO 8217:B	INDEX#	838	-
OPERATIONAL ADVICE			-	-
INJECTION TEMPERAT @ 10 CST		°C	144	-
INJECTION TEMPERAT @ 15 CST		°C	128	-
MINIMUM PUMPING TE @ 1000 CST		°C	34	-
ADDITIONAL METALS			-	-

IRON	ISO 10478MOD mg / kg	19	-
NICKEL	ISO 10478MOD mg / kg	31	-
CALCIUM	ISO 10478MOD mg / kg	4	-
MAGNESIUM	ISO 10478MOD mg / kg	1	-
LEAD	ISO 10478MOD mg / kg	<1	-
ZINC	ISO 10478MOD mg / kg	1	-
TOTAL ACID NUMBER	ASTM 664 mg/g	0.70	3.0 MAX
OPERATIONAL ADVICE		-	-
CHEMICAL CONTAMINA	LINMS -	-Not Tested	
PHOSPHOROUS	ISO 10478MOD mg / kg	<1	-

ONBOARD FUEL BLENDING IS NOT RECOMMENDED

*Refer to your engine manufacturer's for max/min alarm settings

Spec. density:	991.0 @15C	Spec. viscosity:	380.0 @50C
Supplier density:	973.3 @15C	Supplier viscosity:	341.0 @50C
Sample density:	976.8 @15C	Sample viscosity:	369.9 @50C

Spec. sulphur:	1.00%
Supplier sulphur:	0.95%
Sample sulphur:	1.06%

Lab Technician : Premalatha Indupalli

Sample results are compared with the spec, RMG380

The above analysis was carried out on a sample supplied by your vessel's Chief Engineer in accordance with the Bunker Data Form returned to us. The sample bottle was sealed on arrival. The seal was broken to allow the analysis to be carried out.

ENGINEERING NOTES:

The following engineering notes are given in good faith for guidance only, always check with your Company Instructions and machinery manufacturer's instructions before taking any actions.

* PLEASE NOTE TESTED SULPHUR CONTENT of 1.06% AGAINST A 1.00% SPEC. *

The analysis of the submitted sample has shown a Sulphur content above 1.00%. This single test result, although in excess of the latest MARPOL Annex VI regulations for Marine Bunker Fuels for use within an ECA, is within the 95% Confidence limit for the test. The 95% Confidence limit is calculated using the precision data as provided in the test methods ISO 8754 and ISO 14596. The sample, as tested, is in compliance with the MARPOL Revised Annex VI for the current ECA Sulphur Limit and as such no further action is required.

* HAVE YOU GOT ENOUGH SAMPLE BOTTLES?
 * IF NOT, SEE YOUR INSTRUCTION FOLDER FOR SUPPLY DETAILS.
 * ALTERNATIVELY CONTACT THE LINTEC LOGISTICS DEPARTMENT

AT testing@lintec-group.com OR CALL 0044 1325 390180.

Sample Reports prepared by Narinder Singh / Lintec Testing Services Limited.

SHOULD YOU WISH TO DISCUSS THIS TEST REPORT OR ANY OTHER TECHNICAL ISSUE PLEASE CONTACT OUR RESULTS DEPARTMENT AT results@lintec-group.com OR CALL 0044 1325 390183.

Signed: Premalatha Indupalli Report Date: 21/04/2014
on behalf of Lintec Testing Services Ltd.

Valued Quality. Delivered.

CONFIDENTIALITY NOTICE

This email may contain confidential or privileged information, if you are not the intended recipient, or the person responsible for delivering the message to the intended recipient then please notify us by return email immediately. Should you have received this email in error then you should not copy this for any purpose nor disclose its contents to any other person.

<http://www.intertek.com>

ITS Testing Services (UK) Limited, Registered in England No. 1408264, Registered Office Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, VAT Registration No. 672763996

*******CONFIDENTIALITY NOTICE*******

The information in this email may be confidential and/or privileged. This email is intended to be reviewed by only the individual or organization named above. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system.

*******END OF NOTICE*******

Rivera, Gregory

From: George Hanrahan [George.Hanrahan@chemoil.com]
Sent: Thursday, April 24, 2014 7:06 AM
To: Cline, Mark
Cc: Rivera, Gregory; Cosgrove, Cole; Nealon, Gardiner; CMFMarketing; Robert Pelech; Michael Vicidomine; Peder Nielsen
Subject: WEISSHORN 04/04/2014 - Chemoil Ref. # 2400281
Attachments: 2014-027-00255 seal LS-7301 04-23-2014.pdf; Dc61.jpg; Dc62.jpg; Dc63.jpg

6

Hello Mark,

Attached please find an Inspectorate certificate of analysis and sample bottle photos applicable to Chemoil's delivery to the MV Weisshorn at Jacksonville on April 4th. The sulfur content has been confirmed at 1.02 wt. %. As discussed previously, Chemoil considers a result such as this to be on-specification since it falls within test precision repeatability of the contractual maximum and also within ISO 4259 acceptability criteria.

As promised, I am discussing with our Operations department the recent quality issues at Jacksonville and we will be providing you with the requested comments shortly.

Best regards,

George A. Hanrahan
Claims Manager
Chemoil Corporation
george.hanrahan@chemoil.com
Tel.: 914 287 8714
Cell: 914 330 6619

From: Cline, Mark [mailto:Mark.Cline@crowley.com]
Sent: Tuesday, April 22, 2014 4:47 PM
To: George Hanrahan
Cc: Rivera, Gregory; Cosgrove, Cole; Nealon, Gardiner; CMFMarketing; Robert Pelech; Michael Vicidomine; Peder Nielsen
Subject: RE: PLEASE READ ENGINEERING NOTES FOR DETAILS OF PARAMETERS WHICH EXCEED SPECIFICATION LIMIT - WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS

George,
Thank you. Standing by...

Regards
Mark Cline
Mark.Cline@crowley.com
Office: 904-727-2444 | Mobile: 813-629-1712

From: George Hanrahan [mailto:George.Hanrahan@chemoil.com]
Sent: Tuesday, April 22, 2014 3:48 PM
To: Cline, Mark
Cc: Rivera, Gregory; Cosgrove, Cole; Nealon, Gardiner; CMFMarketing; Robert Pelech; Michael Vicidomine; Peder Nielsen
Subject: RE: PLEASE READ ENGINEERING NOTES FOR DETAILS OF PARAMETERS WHICH EXCEED SPECIFICATION LIMIT - WEISSHORN 04/04/2014 - SUBMITTED TEST RESULTS

IAC Savannah
151 East Lathrop Ave.
Savannah, Georgia 31415 USA
T: 912-335-1107
F: 912-335-1115

6



INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank :
Product :
Client Reference :
Terminal / Port / Office :
Job ID :
Comments :

Submitted Samples
#6 Fuel Oil
Order # 2400281
IAC - SAVANNAH
0027-0000542-D

Sample Submitted By : Vane Brothers
Analysis Performed By : IAC Savannah
Date Sampled : 1-Apr-14
Date Reported : 23-Apr-14
Submission ID : 2014-027-00255

Seal # LS-7301 Submitted		
2014-027-00255-001		Submitted
Method	Test	Result
ASTM D4294	Sulfur Content , mass %	1.02

For Inspectorate:

Jeremiah Cameron, Chemist

8

VOYAGE PLAN

Vessel Name: WEISSHORN

IMO:9126974

Flag :Antigua and Barbuda

Estimated Date and Time for sailing through the North American/Florida ECA Zone and Caribbean ECA Zone:

Voyage 4016 N

- 1.Enter Florida ECA Zone 28/Apr/2014 -2000lt bound for Jacksonville.
- 2.Arrival Jacksonville 29/Apr/2014 – 1000lt.Departure Jacksonville 30/Apr/2014 – 1300lt

Voyage 4018S/ N

- 1.Arrival Port Everglades 01/May/2014 – 0900lt for cargo ops.
- 2.Departure Port Everglades 01/May/2014-2300lt
- 3.Exit Florida ECA Zone:02/May/2014 – 0200lt.
- 4.Enter Caribbean ECA Zone: 04/May/2014 – 0600lt S/bound for St Tomas and St Croix cargo ops
5. Exit Caribbean ECA Zone 06/May/2014 – 0200lt S/bound
- 6.Enter Florida ECA Zone 12/May/2014 -1100lt bound for Jacksonville
- 7.Arrival Jacksonville 13/May/2014- 0100lt. Departure Jacksonville 14/May/2014 – 1300lt

Voyage 4020S

- 1.Arrival Port Everglades 15/May/2014 – 0900lt for cargo ops.
- 2.Departure Port Everglades 15/May/2014-2300lt
- 3.Exit Florida ECA Zone:16/May/2014 – 0200lt.

Schedule subject to changes as per STT Ops advise and berth availability.

m/v "WEISSHORN"

Capt.Bilenko Dmytro